

Process and installation for the biological treatment of waste water containing nitrogen, especially for nitrification and/or denitrification.

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Inventor(s): DESBOS GILBERT; SIBONY JACQUES
Applicant(s): OMNIUM TRAITEMENT VALORISA (FR)
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Abstract

Process for the biological treatment of a waste water to be treated containing a nitrogenous contamination, according to which: - an incidental flow of this water is brought into a mixing zone with at least one compartment (A, A', A'') in which zone, using turbulent mechanical stirring, a relatively unconsumable and relatively insoluble granular material carrying biomass is placed in homogeneous suspension on this water and is maintained at a substantially constant mass concentration; - this water and this granular material in suspension are circulated through a separating zone (B, B', B'') from which there are extracted, on the one hand, clarified water and, on the other hand, the granular material carrying biomass; and - virtually all of the active biomass attached to the said granular material is returned by forced recycling

towards the mixing zone (A, A', A'').



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